

61

OIPE

RAW SEQUENCE LISTING DATE: 12/26/2001
PATENT APPLICATION: US/09/875,076 TIME: 16:20:14

Input Set : N:\Crf3\RULE60\09875076.RAW.txt
Output Set: N:\CRF3\12262001\I875076.raw

1 <110> APPLICANT: Chen, Ruoping
2 Dang, Huong T.
3 Liaw, Chen W.
4 Lin, I-Lin
5 <120> TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
6 <130> FILE REFERENCE: AREN0050
7 <140> CURRENT APPLICATION NUMBER: 09/875,076
8 <141> CURRENT FILING DATE: 2001-06-06
9 <150> PRIOR APPLICATION NUMBER: 09/417,044
10 <151> PRIOR FILING DATE: 1999-10-12
11 <150> PRIOR APPLICATION NUMBER: 60/120,416
12 <151> PRIOR FILING DATE: 1999-02-16
13 <150> PRIOR APPLICATION NUMBER: 60/121,851
14 <151> PRIOR FILING DATE: 1999-02-26
15 <150> PRIOR APPLICATION NUMBER: 60/123,946
16 <151> PRIOR FILING DATE: 1999-03-12
17 <150> PRIOR APPLICATION NUMBER: 60/123,949
18 <151> PRIOR FILING DATE: 1999-03-12
19 <150> PRIOR APPLICATION NUMBER: 60/136,436
20 <151> PRIOR FILING DATE: 1999-05-28
21 <150> PRIOR APPLICATION NUMBER: 60/136,437
22 <151> PRIOR FILING DATE: 1999-05-28
23 <150> PRIOR APPLICATION NUMBER: 60/136,439
24 <151> PRIOR FILING DATE: 1999-05-28
25 <150> PRIOR APPLICATION NUMBER: 60/136,567
26 <151> PRIOR FILING DATE: 1999-05-28
27 <150> PRIOR APPLICATION NUMBER: 60/137,127
28 <151> PRIOR FILING DATE: 1999-05-28
29 <150> PRIOR APPLICATION NUMBER: 60/137,131
30 <151> PRIOR FILING DATE: 1999-05-28
31 <150> PRIOR APPLICATION NUMBER: 60/141,448
32 <151> PRIOR FILING DATE: 1999-06-29
33 <150> PRIOR APPLICATION NUMBER: 60/156,653
34 <151> PRIOR FILING DATE: 1999-09-29
35 <150> PRIOR APPLICATION NUMBER: 60/156,633
36 <151> PRIOR FILING DATE: 1999-09-29
37 <150> PRIOR APPLICATION NUMBER: 60/156,555
38 <151> PRIOR FILING DATE: 1999-09-29
39 <150> PRIOR APPLICATION NUMBER: 60/156,634
40 <151> PRIOR FILING DATE: 1999-09-29
41 <150> PRIOR APPLICATION NUMBER: 60/157,280
42 <151> PRIOR FILING DATE: 1999-10-01
43 <150> PRIOR APPLICATION NUMBER: 60/157,294
44 <151> PRIOR FILING DATE: 1999-10-01
45 <150> PRIOR APPLICATION NUMBER: 60/157,281
46 <151> PRIOR FILING DATE: 1999-10-01
47 <150> PRIOR APPLICATION NUMBER: 60/157,293

SEARCHED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/875,076

DATE: 12/26/2001
TIME: 16:20:14

Input Set : N:\CrF3\RULE60\09875076.RAW.txt
Output Set: N:\CRF3\12262001\I875076.raw

```

99          100          105          110
100 Arg Ser Ala Ile Asn Ile Leu Leu Ala Ser Leu Ala Phe Ala Asp Met
101           115           120           125
102 Leu Leu Ala Val Leu Asn Met Pro Phe Ala Leu Val Thr Ile Leu Thr
103           130           135           140
104 Thr Arg Trp Ile Phe Gly Lys Phe Phe Cys Arg Val Ser Ala Met Phe
105           145           150           155           160
106 Phe Trp Leu Phe Val Ile Glu Gly Val Ala Ile Leu Leu Ile Ser
107           165           170           175
108 Ile Asp Arg Phe Leu Ile Ile Val Gln Arg Gln Asp Lys Leu Asn Pro
109           180           185           190
110 Tyr Arg Ala Lys Val Leu Ile Ala Val Ser Trp Ala Thr Ser Phe Cys
111           195           200           205
112 Val Ala Phe Pro Leu Ala Val Gly Asn Pro Asp Leu Gln Ile Pro Ser
113           210           215           220
114 Arg Ala Pro Gln Cys Val Phe Gly Tyr Thr Thr Asn Pro Gly Tyr Gln
115           225           230           235           240
116 Ala Tyr Val Ile Leu Ile Ser Leu Ile Ser Phe Phe Ile Pro Phe Leu
117           245           250           255
118 Val Ile Leu Tyr Ser Phe Met Gly Ile Leu Asn Thr Leu Arg His Asn
119           260           265           270
120 Ala Leu Arg Ile His Ser Tyr Pro Glu Gly Ile Cys Leu Ser Gln Ala
121           275           280           285
122 Ser Lys Leu Gly Leu Met Ser Leu Gln Arg Pro Phe Gln Met Ser Ile
123           290           295           300
124 Asp Met Gly Phe Lys Thr Arg Ala Phe Thr Thr Ile Leu Ile Leu Phe
125           305           310           315           320
126 Ala Val Phe Ile Val Cys Trp Ala Pro Phe Thr Thr Tyr Ser Leu Val
127           325           330           335
128 Ala Thr Phe Ser Lys His Phe Tyr Tyr Gln His Asn Phe Phe Glu Ile
129           340           345           350
130 Ser Thr Trp Leu Leu Trp Leu Cys Tyr Leu Lys Ser Ala Leu Asn Pro
131           355           360           365
132 Leu Ile Tyr Tyr Trp Arg Ile Lys Lys Phe His Asp Ala Cys Leu Asp
133           370           375           380
134 Met Met Pro Lys Ser Phe Lys Phe Leu Pro Gln Leu Pro Gly His Thr
135           385           390           395           400
136 Lys Arg Arg Ile Arg Pro Ser Ala Val Tyr Val Cys Gly Glu His Arg
137           405           410           415
138 Thr Val Val
140 <210> SEQ ID NO: 3
141 <211> LENGTH: 1119
142 <212> TYPE: DNA
143 <213> ORGANISM: Homo sapiens
144 <400> SEQUENCE: 3
145 atgttagcca acagtcctc aaccaacagt tctgttctcc cgtgtcctga ctaccgacct 60
146 acccaccggcc tgcacttggt ggtctacagc ttgggtctgg ctggcggtct cccccctcaac 120
147 gcqctagccc tctgggtctt cctgcgcgcg ctgcgcgtgc actcgggttgt gagcgtgtac 180
148 atgtgttaacc tggcgccag cgacctgctc ttcaccctct cgctgcccgt tctgtctcc 240

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/875,076

DATE: 12/26/2001
TIME: 16:20:14

Input Set : N:\CrF3\RULE60\09875076.RAW.txt
Output Set: N:\CRF3\12262001\I875076.raw

tactacgcac tgccaccactg gcccctcccc gacctcctgt gccagacgac gggcgccatc 300
 ttccagatga acatgtacgg cagctgcac ttcctgatgc tcataaacgt ggaccgctac 360
 qccgcctacg tgcaccgcgt gcgactgcgc cacctggcc ggcggccgtg ggcggccgt 420
 ctctgcgtgg qcggtgtggc gtcatacttq gtgttgccg tgcggccgc cccgtgcac 480
 aggccctcgc gtgtcccta cccggacccg qagggtgcqca tatgtttcqa qagettcaq 540
 gacgagctgt gaaaaaggcag gctgtgtccc ctgtgtgtc tggccgaggc gctgggtctc 600
 ctgtgtcccc tggccggcgt ggtctactcg tcggggccgag tcttctggac gctggcgccq 660
 cccgacycca cccagaccca gccggccggg aqaccgcgtc gccttcgtc ggcataaccct 720
 gtcatcttcc tgcgtgtgtt cgtgccttac aacagcacgc tggcggtcta cgggctgtc 780
 cggaaacaaggc tggtggccgc cagctgtcc tggccgcata gctgtgtccg qgtgtgtatq 840
 gtgtatggc tgcgtggccgg cggcaactgc gtgtgtggacc cgctgtgtta ctacttttagc 900
 gccgagggtt tccgcaacac cctgcgcgc ctgggcactc cgcacccggc caggacctcg 960
 gccaacaaqg ggacggccggc ggcgtcgccg caatccgaaa gtgtccggcgtt caccaccqac 1020
 gccacccaggc cggatggccgc cagtcagggg ctgtccggac cttccgactc ccactctctg 1080
 ttttttttca cacatgttcc ccaggattcc gcccctctga 1119
 165 <210> SEQ ID NO: 4
 166 <211> LENGTH: 372
 167 <212> TYPE: PRT
 168 <213> ORGANISM: Homo sapiens
 169 <400> SEQUENCE: 4
 170 Met Leu Ala Asn Ser Ser Ser Thr Asn Ser Ser Val Leu Pro Cys Pro
 171 1 5 10 15
 172 Asp Tyr Arg Pro Thr His Arg Leu His Leu Val Val Tyr Ser Leu Val
 173 20 25 30
 174 Leu Ala Ala Gly Leu Pro Leu Asn Ala Leu Ala Leu Trp Val Phe Leu
 175 35 40 45
 176 Arg Ala Leu Arg Val His Ser Val Val Ser Val Tyr Met Cys Asn Leu
 177 50 55 60
 178 Ala Ala Ser Asp Leu Leu Phe Thr Leu Ser Leu Pro Val Arg Leu Ser
 179 65 70 75 80
 180 Tyr Tyr Ala Leu His His Trp Pro Phe Pro Asp Leu Leu Cys Gln Thr
 181 85 90 95
 182 Thr Gly Ala Ile Phe Gln Met Asn Met Tyr Gly Ser Cys Ile Phe Leu
 183 100 105 110
 184 Met Leu Ile Asn Val Asp Arg Tyr Ala Ala Ile Val His Pro Leu Arg
 185 115 120 125
 186 Leu Arg His Leu Arg Arg Pro Arg Val Ala Arg Leu Leu Cys Leu Gly
 187 130 135 140
 188 Val Trp Ala Leu Ile Leu Val Phe Ala Val Pro Ala Ala Arg Val His
 189 145 150 155 160
 190 Arg Pro Ser Arg Cys Arg Tyr Arg Asp Leu Glu Val Arg Leu Cys Phe
 191 165 170 175
 192 Glu Ser Phe Ser Asp Glu Leu Trp Lys Gly Arg Leu Leu Pro Leu Val
 193 180 185 190
 194 Leu Leu Ala Glu Ala Leu Gly Phe Leu Leu Pro Leu Ala Ala Val Val
 195 195 200 205
 196 Tyr Ser Ser Gly Arg Val Phe Trp Thr Leu Ala Arg Pro Asp Ala Thr
 197 210 215 220
 198 Gln Ser Gln Arg Arg Arg Lys Thr Val Arg Leu Leu Leu Ala Asn Leu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,076

DATE: 12/26/2001

TIME: 16:20:14

Input Set : N:\CrF3\RULE60\09875076.RAW.txt

Output Set: N:\CRF3\12262001\I875076.raw

199	225	230	235	240
200	Val Ile Phe Leu Leu Cys Phe Val Pro Tyr Asn Ser Thr Leu Ala Val			
201	245	250	255	
202	Tyr Gly Leu Leu Arg Ser Lys Leu Val Ala Ala Ser Val Pro Ala Arg			
203	260	265	270	
204	Asp Arg Val Arg Gly Val Leu Met Val Met Val Leu Leu Ala Gly Ala			
205	275	280	285	
206	Asn Cys Val Leu Asp Pro Leu Val Tyr Tyr Phe Ser Ala Glu Gly Phe			
207	290	295	300	
208	Arg Asn Thr Leu Arg Gly Leu Gly Thr Pro His Arg Ala Arg Thr Ser			
209	305	310	315	320
210	Ala Thr Asn Gly Thr Arg Ala Ala Leu Ala Gln Ser Glu Arg Ser Ala			
211	325	330	335	
212	Val Thr Thr Asp Ala Thr Arg Pro Asp Ala Ala Ser Gln Gly Leu Leu			
213	340	345	350	
214	Arg Pro Ser Asp Ser His Ser Leu Ser Ser Phe Thr Gln Cys Pro Gln			
215	355	360	365	
216	Asp Ser Ala Leu			
217	370			
219 <210>	SEQ ID NO: 5			
220 <211>	LENGTH: 1107			
221 <212>	TYPE: DNA			
222 <213>	ORGANISM: Homo sapiens			
223 <400>	SEQUENCE: 5			
224	atggccaact ccacagggtc gaacgcctca gaagtgcag gctcggtgg gttgatcc 60			
225	gcacgtgtcg tggagggtgg ggcactgtcg ggcaacggcg cgctgttgt ctgggtctg 120			
226	cgcacgcgg gactgcgcga cgcgtctac ctggcgacc tggcgctgt ggacctgtc 180			
227	gccccgcgtt ccatacatgcc qctqqqctg ctggccgcac cgcgcgcgg gctgggcgc 240			
228	gtgcgcctgg gccccgcgc acgtccgcgc gtcgtcttc tctccgcgc tetgtctgcgc 300			
229	gcctgcacgc tcgggttgcc cgcacttgcc ctggcacgt accgcctcat cgtgcacccg 360			
230	ctqcgcccaq gctcgccggc gcccgttgq ctgcgtctca ccgcgtgtg ggcgcggcg 420			
231	ggactgtctgg ggcgcgtctc ctcgtctggc cgcgcgcgg caccgcggc tgcctctgt 480			
232	cgctgtctgg tcctggctgg ggcgcgtgg cccttcggc cgctctggc ctgtctggc 540			
233	ttcgcgtgc ccgcctctc qctgtctggc gcctacggcg gcatcttcgt ggtggcgcgt 600			
234	cgcgcgtccc tgaggcccc acggccggcg cgccggtccc gactccgcgc ggactctctg 660			
235	gatagccccc ttccatctt gcccgcgtc cggcctcgcc tgccgggggg caaggcggcc 720			
236	ctggccccag cgctggccgt gggccaattt gcaactgt ggetgccta tggctgcgcg 780			
237	tgcctggcgc cgcgcgcgc ggcgcggaa gcccgaagcg ctgtacactg gtcgcctac 840			
238	tgcgcgtcc cggtcacccc ettcctgtac gggctgtgc agcccccgt ggcctggca 900			
239	ctggccgcgc ttcgtccgc tgactgtgt ggcacccgt gggctgtgc tccgcac 960			
240	tggcacccgc gggcaacttt gcaatgcctc cagaaccccc cagaggcccc tggctgttagc 1020			
241	cttcttgagg ctccagaaca gaccccccggat tggcaggag ggcggggccc cgcataccag 1080			
242	ggccacccgt agagttctc ctccctga			1107
244 <210>	SEQ ID NO: 6			
245 <211>	LENGTH: 368			
246 <212>	TYPE: PRT			
247 <213>	ORGANISM: Homo sapiens			
248 <400>	SEQUENCE: 6			
249	Met Ala Asn Ser Thr Gly Leu Asn Ala Ser Glu Val Ala Gly Ser Leu			

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/875,076

DATE: 12/26/2001

TIME: 16:20:15

Input Set : N:\Crf3\RULE60\09875076.RAW.txt

Output Set: N:\CRF3\12262001\I875076.raw